

What is claimed is:

1           1. A vehicular under-seat compartment mechanism  
2 for utilizing space under a seat having a seat-frame and  
3 a seat-cushion disposed on the seat-frame, said mechanism  
4 comprising:

5           a hinge mechanism interconnecting the seat-frame  
6 and the seat-cushion in such a manner that the  
7 seat-cushion is pivotally rotatable with respect to the  
8 seat-frame;

9           a compartment, which is disposed in the under-seat  
10 space under the seat and is formed an opening upwardly,  
11 and

12          a lock mechanism, integrated with said hinge  
13 mechanism, for locking the seat-cushion at an upright  
14 position, at which the seat-cushion is pivotally flipped  
15 up about said hinge mechanism so that said compartment  
16 is accessible.

1           2. A vehicular under-seat compartment mechanism,  
2 according to claim 1, further comprising a release  
3 mechanism for releasing the locking of the seat-cushion  
4 by said lock mechanism.

1           3. A vehicular under-seat compartment mechanism  
2 according to claim 2, wherein said release mechanism  
3 includes

4           an unlocking strap disposed at a rear end of the  
5 seat-cushion, and

6           a wire linking between said unlocking strap and said  
7 lock mechanism in such a manner that when said unlocking  
8 strap is operated by an user, the locking of the  
9 seat-cushion by said lock mechanism is released.

1           4. A vehicular under-seat compartment mechanism  
2 according to claim 3, wherein said lock mechanism  
3 includes

4           a cam, fixed on the seat-frame, said cam having a  
5 first slot and a second slot, and

6           a lock member, disposed to the seat-cushion for  
7 selectively engaging with one of said first and second  
8 slot so that when said lock member engages with said  
9 second slot, the seat-cushion is locked in the upright  
10 position and so that when said lock member engages with  
11 said first slot, the seat-cushion is locked in a  
12 horizontal position at which the seat-cushion lays on  
13 the seat-frame horizontally.

1           5. A vehicular under-seat compartment mechanism  
2 according to claim 4, further comprising an inner lid,  
3 disposed between the seat-cushion and said compartment,  
4 for covering the opening of said compartment.

1           6. A vehicular under-seat compartment mechanism

2 according to claim 5, further comprising  
3 a seat-hook attached at the back face of the  
4 seat-cushion, and  
5 an inner lid strap attached to said inner lid to  
6 be hooked on said seat-hook.

1 7. A vehicular under-seat compartment mechanism  
2 according to claim 6, further comprising an extra wall  
3 upwardly projected from an edge of the opening of said  
4 compartment along with the edge of the opening.

1 8. A vehicular under-seat compartment mechanism  
2 according to claim 7, further comprising one or more  
3 netting hooks, disposed around the opening of said  
4 compartment, for engaging a net so as to keep an object  
5 in said compartment.

1 9. A vehicular under-seat compartment mechanism  
2 according to claim 1, wherein said lock mechanism  
3 includes  
4 a cam, fixed on the seat-frame, said cam having a  
5 first slot and a second slot, and  
6 a lock member, disposed to the seat-cushion for  
7 selectively engaging with one of said first and second  
8 slot so that when said lock member engages with said  
9 second slot, the seat-cushion is locked in the upright  
10 position and so that when said lock member engages with

11 said first slot, the seat-cushion is locked in a  
12 horizontal position at which the seat-cushion lays on  
13 the seat-frame horizontally.

1 10. A vehicular under-seat compartment mechanism  
2 according to claim 4, further comprising  
3 a seat-hook attached at the back face of the  
4 seat-cushion, and  
5 an inner lid strap attached to said inner lid to  
6 be hooked on said seat-hook.

1 11. A vehicular under-seat compartment mechanism  
2 according to claim 10, further comprising an extra wall  
3 upwardly projected from an edge of the opening of said  
4 compartment along with the edge of the opening.

1 12. A vehicular under-seat compartment mechanism  
2 according to claim 1, further comprising  
3 a seat-hook attached at the back face of the  
4 seat-cushion, and  
5 an inner lid strap attached to said inner lid to  
6 be hooked on said seat-hook.

1 13. A vehicular under-seat compartment mechanism  
2 according to claim 1, further comprising an inner lid,  
3 disposed between the seat-cushion and said compartment,  
4 for covering the opening of said compartment.

1           14. A vehicular under-seat compartment mechanism  
2 according to claim 13, further comprising  
3           a seat-hook attached at the back face of the  
4 seat-cushion, and  
5           an inner lid strap attached to said inner lid to  
6 be hooked on said seat-hook.

1           15. A vehicular under-seat compartment mechanism  
2 according to claim 14, further comprising an extra wall  
3 upwardly projected from an edge of the opening of said  
4 compartment along with the edge of the opening.

1           16. A vehicular under-seat compartment mechanism  
2 according to claim 15, further comprising one or more  
3 netting hooks, disposed around the opening of said  
4 compartment, for engaging a net so as to keep an object  
5 in said compartment.

1           17. A vehicular under-seat compartment mechanism  
2 according to claim 13, further comprising an extra wall  
3 upwardly projected from an edge of the opening of said  
4 compartment along with the edge of the opening.

1           18. A vehicular under-seat compartment mechanism  
2 according to claim 17, further comprising one or more  
3 netting hooks, disposed around the opening of said  
4 compartment, for engaging a net so as to keep an object

5 in said compartment.